# RS CABLE

## RS-CA5/6/R-2/4

rs56r24_e 06/04

The RS-CA5/6/R-2/4 cable is intended for connecting the equipment fitted with a serial TTL (0V, +5V) standard interface to a computer. **It comprises a converter to change this signal to the standard compatible with the RS-232 link in the computer (-12V, +12V)**. The data can be transmitted both ways.

## EQUIPMENT SERVED

| Equipment type | Symbol | Software version |
|---|---|---|
| ALARM CONTROL PANEL | CA-5 | 1.03 and later |
| | CA-6 | 5.00 and later |
| RADIO CONTROLLER | RX2K | 1.1 and later |
| | RX4K | 1.1 and later |

Programming of this equipment is to be carried out by means of the DLOAD10 computer program (version 1.00.06 or later), which is used in the WINDOWS environment and sold together with the above-mentioned alarm control panels. The current version of the program is also available on the SATEL Company Internet site *www.satel.pl*.

## CONNECTING THE CONTROL PANEL

The SATEL-made alarm control panels, which permit programming by means of this cable, are fitted with a main board socket designated as „**RS232 (TTL)”**. To make programming of the control panel possible, plug the 3-pin connector into the socket on the panel, and the DB-9 connector into the corresponding socket of the RS-232 port on the computer. Then, power up the control panel and the computer, start the DLOAD10 program, initialize the connection and proceed to programming the parameters.

***NOTES:***

- *Do not short-circuit or touch the connector pins with your fingers.*
- *Prior to connecting the cable, the installer should preliminary release the electrostatic charge e.g. by touching grounded equipment (a faucet, a heater, etc.) with the top of his hand.*
- *It is recommended to connect the cable first to the control panel (controller) interface, and then to the computer interface.*

## CONNECTING THE RADIO CONTROLLER

As the controller has no seperate RS port socket, some terminals of the connecting block are used for data transmission by reprogramming the purpose of the same.

In the programming mode, the following signals are passed onto the controller terminals:

**AL -** **Rx** of radio controller
**LV -** **Tx** of radio controller
**COM -** **ground** (common terminal)

The cable set includes an adapter, which must be connected to the 3-pin connector. The three wires of the adapter are to be connected to the controller terminals as shown in the figure below.

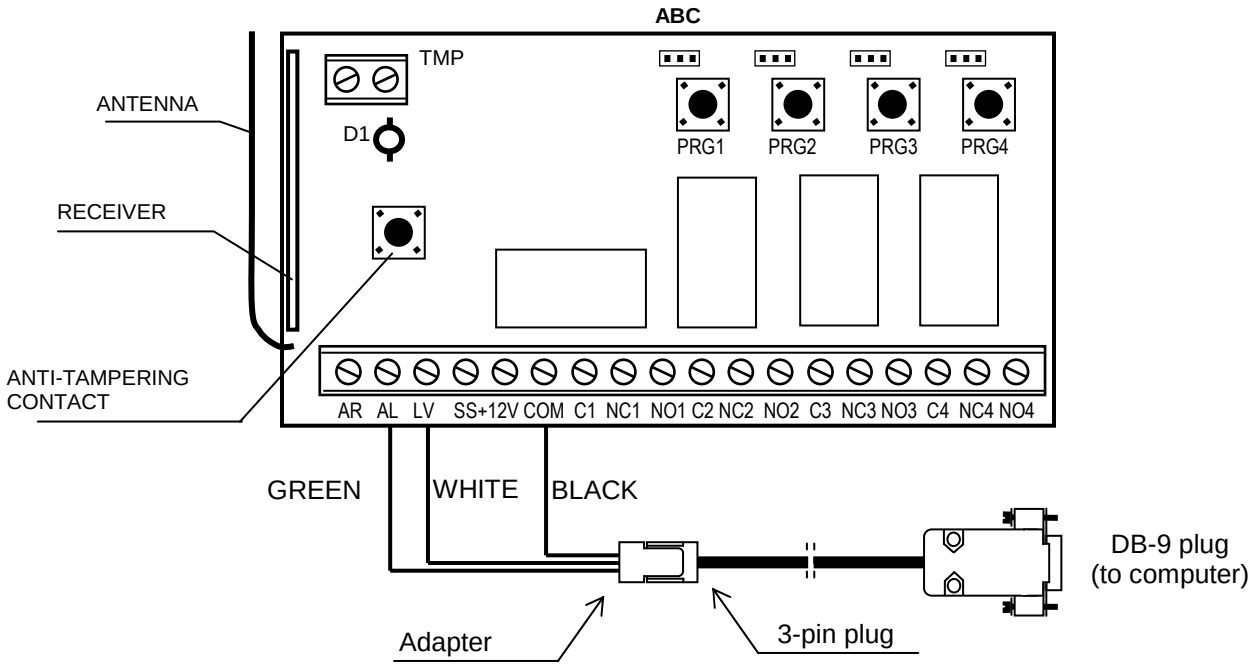


*Figure 1. Connection of the cable to radio controller.*

Prior to connecting the adapter wires (green and white), disconnect other cables, if any, from the terminals AL and LV.

To start the **programming mode** do the following:

- for a four-channel controller - depress and hold down the **PRG4** button until the LED blinks in red (about 5 seconds);
- for a two-channel controller - depress and hold down the **PRG2** button until the LED blinks in red (about 5 seconds);
- release the button, then depress it and hold down again (about 5 seconds), until the diode starts cyclically changing its color: red – green – off – red – green – off – red - etc.;
- the controller waits for 60 seconds for communication to be established with the computer, and, in case of no connection, automatically returns to the normal mode of operation.

PROGRAMMING THE CONTROLLER

In order to establish communication in the DLOAD10 program, select the suitable computer communication port. Next, open the FILE menu, select NEW, enter the submenu and select RADIO CONTROLLER RX2/RX4K. The program enables editing a list of remote controles acc. to their unique serial numbers. You can read out the contents of a remote control memory, enter new remote controls into the memory and assign channels to be controlled, individually delete the already entered remote controls, and program the timing of relays. Each of the remote controls can be assigned the user name. Having completed the editing, enter the data into the controller memory or save the data under a suitable name in the computer memory.
The data which were previously saved are accessible through selecting the OPEN item in the FILE menu... .